

MATH 113 - Elements of Calculus

Spring Semester - 2014

Instructor: Bruce MacMillan

Office: Gould Simpson 837

Phone: 621-6866 (Center for Recruitment and Retention)

Email Address: bmacmillan@math.arizona.edu

Office Hours: I will be available after class on Monday, Wednesday, and Friday in my office from 10:00 - 11:30 am.

Other times can be arranged by appointment.

The TA's will also hold regularly scheduled office hours which will be announced in class and posted on D2L.

Text and Supplementary Materials: Applied Calculus (Fourth Edition), by Hughes-Hallett, et al. and WileyPlus. The WileyPlus website is where you will access your homework assignments, and it also includes many learning tools, such as interactive tutorials and self quizzes.

Graphing Calculator: All students will need a graphing calculator for this class. The recommended calculator is one of the TI-83/84 calculators. Another sufficient calculator is the new TI-Nspire (non-CAS version). The math department has a rule stating that the TI-89 or any calculator with a Computer Algebra System, such as the TI-Nspire CAS, is not allowed for this course. You should bring your calculator to class every day, as it will be an integral part in our instruction.

Course Grading Policy:

Tests: A short "Pretest" (worth 10 points) will be assigned covering "prerequisite" algebra material. (You will find review problems for this pretest in a worksheet posted on the D2L course website.) Four tests, worth 100 points each, and a comprehensive Final Exam, worth 200 points will be given during the semester. There will be parts of every test that require a graphing calculator. The dates of the tests are:

Pretest: Completed by Friday, January 24, at 6:00 pm

Test #1: Friday, February 7

Test #2: Wednesday, March 5

Test #3: Wednesday, April 9

Test #4: Friday, May 2

Final Exam: Monday, May 12, 10:30 - 12:30

Homework Assignments: A homework assignment will be given each week that there is not a test. The assignment will consist of problems selected from the textbook, followed by a "Graded Assignment", using the on-line supplemental materials WileyPlus. These 12 assignments completed on WileyPlus will be worth 12 points each. Assignments are due by midnight on Sunday night. **No assignments will be accepted after the due date.** At the end of the semester, the lowest two homework scores will be dropped. You are allowed to work together in doing homework assignments, however, copying someone's assignment will not be tolerated. If this occurs, all students involved will receive no credit on the assignment.

Please make a serious effort to keep up with the assignments on a daily basis! Your scores on homework assignments should help your grade, not hurt it!

Calculus Application Problems: Three problems will be assigned during the semester that will be an extension to the homework assignments. These problems will focus on collecting data from an experiment or activity, and then applying algebra and calculus to solve the "real-world" problem. Each of these "application problems" will require the use of a graphing calculator. You will have approximately one week to complete the problem after it is assigned. These problems will be worth 10 points each.

Attendance and Class Participation: My teaching experience has indicated that there is a strong correlation between "students not being successful in a class" and "students lack of attendance in the class". Also, we cover a lot of material in this course and move fairly quickly. Therefore, an attendance/participation grade will be implemented in class using the "clicker" technology on a regular basis. Students will use these remote transmitters to submit answers to questions during in-class activities, and participation in these exercises will be part of the final grade in the class. (A possible 40 points calculated at the end of the semester, divided into four 10 point time periods during the semester.)

Points Summary: Therefore, you will be accumulating a possible 800 points during the semester.

Pretest:	10 points	
Exams:	400 points	(4 at 100 points each)
Final Exam:	200 points	
Homework Assgn:	120 points	(after 2 lowest scores are dropped)
Attendance/Participation:	40 points	
Calc Application Problems:	30 points	(3 at 10 points each)

Total:	800 points	

Your final grade will be determined by the percentage of these points you have actually received.
A: 90% - 100%, B: 80% - 89%, C: 70% - 79%, D: 60% - 69%, E: Below 60%

Academic Integrity:

Students are responsible to inform themselves of University policies regarding the Code of Academic Integrity. Students found to be in violation of the Code are subject to penalties ranging from a loss of credit for work involved to a grade of E in the course, and possibly risk suspension or probation. The Code of Academic Integrity will be enforced in all areas of the course, including, but not limited to, tests and quizzes.

For more information about the Code of Academic Integrity policies and procedures, including information about your rights and responsibilities as a student, see: <http://deanofstudents.arizona.edu/codeofacademicintegrity>

Classroom Conduct:

Students at The University of Arizona are expected to conform to the standards of conduct established in the Student Code of Conduct. Prohibited conduct includes:

1. All forms of student academic dishonesty, including cheating, fabrication, facilitating academic dishonesty, and plagiarism.
2. Interfering with University or University-sponsored activities, including but not limited to classroom related activities, studying, teaching, research, intellectual or creative endeavor, administration, service or the provision of communication, computing or emergency services.
3. Endangering, threatening, or causing physical harm to any member of the University community or to oneself or causing reasonable apprehension of such harm.
4. Engaging in harassment or unlawful discriminatory activities on the basis of age, ethnicity, gender, handicapping condition, national origin, race, religion, sexual orientation, or veteran status, or violating University rules governing harassment or discrimination.
5. Students found to be in violation of the Code are subject to disciplinary action.

For more information about the Student Code of Conduct, including a complete list of prohibited conduct, see the following website: <http://deanofstudents.arizona.edu/policiesandcodes/studentcodeofconduct>

Some Final Comments:

1. Please turn off and put away all cell phones at the beginning of each class!
 2. Please do not use a computer during class. This can be very distracting to your "neighbors".
 3. The key differences between learning at the UA and learning at a high school are:
 - You, and not your teachers, are now responsible for your education.
 - A majority of your learning may not take place in the classroom.
 4. Not everyone in this room has the same aptitude for mathematics, or has the same preparation for this class. Some of you you will need to work harder (and spend more hours) than others to be successful. Mathematics, like life, is not always fair!
 5. A Frequently Asked Question: How much time should I be spending on my mathematics per week?
Answer: A "full-time job" is considered to be 40 hours per week and a "full-time student" is considered to have a schedule of 15 hours per week. If you subtract 15 hours of class time from the 40 hours, that leaves 25 hours of studying per week. Since this is a 3-hour class, $3/15$ of 25 is 5 hours of studying Math 113, outside of class time, per week.
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First Week of Class Information

I. "Notes Outline" Workbook

You should purchase the Notes Outline workbook from the bookstore before Friday's class, if you have not already done so. This should be brought to class everyday with your clicker and your graphing calculator.

You do not need to bring your textbook to class.

II. D2L Information

The class website is located on D2L (Desire to Learn), which can be accessed at: <http://d2l.arizona.edu/>

Login to the website, select our class, and carefully read the information listed under "News".

In the links listed, you will find all of the course materials you will need in the coming semester.

1. The **Content** link will take you to:

- * The Syllabus and Course Outline (calendar)
- * The Weekly Assignments, including Assignment #1 for this week, and the Pretest Review worksheet and the Pretest.
- * Test Preparation Worksheets, which will be posted on a weekly (or biweekly) basis.

2. The **Grades** link will keep you updated throughout the semester on all of your grades for the class. You should check this weekly to verify that your grades are correctly recorded.

III. WileyPLUS Information

1. When you purchase your textbook, you will also obtain a registration code which will allow you to register on the WileyPLUS website.
2. Copy and Paste our specific Class Section URL listed below into your browser.

<http://edugen.wiley.com/edugen/class/cls371305/>

3. Follow the directions by entering your school email address and your registration code.
4. If you have trouble registering, view the 2-minute video on "How to Register". Remember, you do not have to purchase the registration code on-line. You have already purchased it with your textbook.
5. When you have completed the registration procedure, if you have time, enter WileyPLUS and take Assignment Zero, which will help you become familiar with the website. (This is an "Ungraded Assignment".)

IV. Clicker Information

You should purchase your clicker, if you have not already done so. Information on how to register your clicker is listed below. Your clicker must be purchased and registered by class next **Friday, January 24th**, when we will have our first clicker session! (We will have a "practice clicker session" in class on Wednesday, January 22nd.)

"Clicker" Registration Information:

1. Go to the website: **student.turningtechnologies.com**.
2. Enter your ResponseCard ID (found on back of unit).
3. Enter your first name and last name in the appropriate fields. (Capitalize first letter of first and last name.)
4. Leave "Other Info" field blank.
5. Complete security entry by entering "Text in Image" in the space provided.
6. Press **Next**.
7. Enter instructor's email (**bmacmillan@math.arizona.edu**) and click on **Display Classes**
8. Select our class name and add it to the list on the right.
9. Click Next and confirm information. If the information is correct, click on **Complete Registration**. You may click **Back** if you find information you need to correct.

V. Other Information

You should download and print the **Review Problems for Pretest** from the D2L website. It is located under **Pretest** module. These problems should be completed later this week, so you will have enough time to complete the Pretest by **Friday, January 24th, at 6:00 pm**. The **Pretest** will be posted on the D2L website later this week.